REMARKS

Claims 1-42 are pending. Claims 1-42 have been rejected. Claims 1, 3, 4, 7, 10, 15, 17, 18, 21, 24, 29, 31, 32, 35, and 38 have been amended. No new matter has been added.

Claims 7, 21, and 35 have been objected to because of a typographical error. The claims have been appropriately amended. Withdrawal of the objections to claims 7, 21,and 35 is respectfully requested.

Claims 3, 4, 7, 10, 17, 18, 21, 24, 31, 32, 35, and 38 have been rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims have been appropriately amended. Withdrawal of the rejections of claims 3, 4, 7, 10, 17, 18, 21, 24, 31, 32, 35, and 38 under 35 U.S.C. § 112, second paragraph, is respectfully requested.

Claims 1-30 have been rejected under 35 U.S.C. § 101 as being directed to non-statutory subject matter. Independent claims 1, 15, and 29 have been appropriately amended. Withdrawal of the rejections of claims 1-30 under 35 U.S.C. § 101 is respectfully requested.

Claims 1, 2, 4-6, 8, 15, 16, 18-20, 22, 29, 30, 32-34, and 36 have been rejected under 35 U.S.C. § 102(b) as being anticipated by Rosenberg ("Bringing Java To The Enterprise: Oracle On Its Java Server Strategy"). It is respectfully submitted that claims 1, 2, 4-6, 8, 15, 16, 18-20, 22, 29, 30, 32-34, and 36 are patentable for the reasons set forth below.

Claim 1 includes features that are neither taught nor suggested by the prior art, namely: "hosting the common language runtime (CLR) on the database management system (DBMS)" and "executing requests by the CLR for at least one system resource via an API of the DBMS". According to the claim, the DBMS hosts the CLR. CLR requests are executed by an API of the DBMS. CLR is Microsoft's implementation of the Common Language Infrastructure (CLI) standard, which defines an execution environment for program code. The CLR runs a form of bytecode called the Microsoft Intermediate Language, Microsoft's implementation of the Common Intermediate Language.

Rosenberg does not disclose or suggest hosting the CLR on a DBMS, or executing CLR requests via the DBMS. Rosenberg describes Java components in an Oracle software development kit. Java is an object-oriented programming language that is compiled to a bytecode, which is then run by a Java virtual machine. Rosenberg describes a scalable Java

server (Aurora) that is an embedded subsystem in an Oracle RDBMS, which acts as a "hosting environment" (page 56, first column). However, hosting a scalable Java server on an RDBMS is different from hosting the CLR on a DBMS, as claimed. Additionally, Rosenberg does not execute any CLR requests by an API of a DBMS, as claimed.

Independent claims 15 and 29 recite similar features to those described with respect to claim 1. Based on the foregoing, claims 1, 15, and 29, along with their dependent claims, are patentable for the reasons set forth above. Withdrawal of the rejections of claims 1, 2, 4-6, 8, 15, 16, 18-20, 22, 29, 30, 32-34, and 36 under 35 U.S.C. § 102(b) is respectfully requested.

Claims 3, 17, and 31 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Rosenberg in view of Bugnion (U.S. Patent No. 6,944,699). Claims 7, 21, and 35 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Rosenberg in view of Lucovsky (U.S. Patent No. 6,223,207). Claims 9, 10, 23, 24, 37, and 38 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Rosenberg in view of Kumar (U.S. Patent No. 6,697,810). Claims 11-14, 25-28, and 39-42 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Rosenberg in view of Ng (U.S. Publication No. 2004/0225893).

Claims 3, 7, 9-14, 17, 21, 23-28, 31, 35, and 37-42 are variously dependent on the independent claims described above, and are therefore patentable for those reasons set forth above.

The prior art fails to cure the deficiencies of the Rosenberg. Bugnion generally describes virtual machine monitors and context switching. Lucovsky generally describes asynchronous I/O operations and data port structures in the context of a Windows NT operating system. Kumar generally describes security and event monitoring. Ng generally describes providing authorization or access to resources. However, none of the prior art teaches or suggests hosting the CLR on a DBMS, or executing requests by the CLR for at least one system resource via an API of the DBMS.
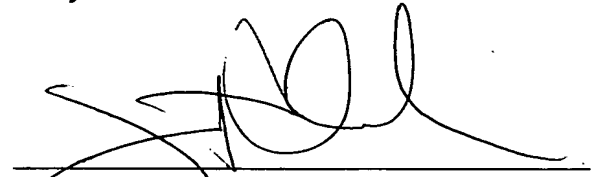
Therefore, withdrawal of the rejection of claims 3, 7, 9-14, 17, 21, 23-28, 31, 35, and 37-42 under 35 U.S.C. § 103(a) is respectfully requested.

In view of the foregoing amendments and remarks, Applicants submit that the above-identified application is in condition for allowance. Early notification to this effect is respectfully requested.

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